

AMENDMENTS TO THE CLAIMS

Please cancel Claims 31-34 and amend Claims 1-3, 5-7, 10, 11, 15-27 and 29 as follows:

Sub
5 1. (Currently Amended) An apparatus comprising:
a display device, and
a display controller operable to display a first graphical image of tabular data,
accept a user selected range of values for editing of the first graphical image, wherein the
range of values are included within the first graphical image, accept a user selected
editing function from among a plurality of possible editing functions, and alter the first
graphical image to produce a second graphical image, wherein the second graphical
image comprises at least one unaltered portion of the first graphical image outside of the
selected range and an altered portion of the first graphical image within the selected
10 range, the altered portion being derived from the editing function configured to display
graphical images representative of tabular data and to permit a user to graphically edit the
tabular data; and
— a simulator configured to receive tabular data edited by a user employing the
controller.

B. 2. (Currently Amended) The apparatus of claim 1 wherein the ~~controller is~~
~~configured to display the tabular data as~~ first graphical image is a line chart.

3. (Currently Amended) The apparatus of claim 1 wherein the ~~controller is~~
~~configured to display the tabular data as~~ first graphical image is a stacked bar chart.

4. (Original) The apparatus of claim 1 wherein the controller is configured to
permit a user to edit the tabular data by adding a data display element.

5. (Currently Amended) The apparatus of claim 4 wherein the added data display element within the second graphical image is a second line within a line chart, wherein the first graphical image is a first line within the line chart.

6. (Currently Amended) The apparatus of claim 4 wherein the added data display element is a first bar within the second graphical image in a stacked bar chart and wherein the first graphical image is a first bar within the stacked bar chart.

7. (Currently Amended) The apparatus of claim 1 wherein the controller is configured to permit a user to edit the tabular data by selecting a range within a graphical display area further operable to alter the first graphical image to produce a third graphical image, wherein the third graphical image comprises at least an unaltered portion of the first graphical image and an altered portion of the first graphical image derived from a second editing function and wherein the editing function in step 15 and the second editing function are applied to the first graphical image over an overlapping range of values and simultaneously display the second and third graphical images to the user to permit the user to select between the second and third graphical images.

8. (Original) The apparatus of claim 1 wherein the controller is configured to permit a user to edit the tabular data by selecting a data display element to edit.

9. (Original) The apparatus of claim 8 wherein the controller is configured to permit a user to edit the tabular data by selecting an editing function to be applied to the data display element.

10. (Currently Amended) The apparatus of claim 9 wherein the controller is configured to display [[an]]the editing function as an editing option in the form of [[an]] a mathematical equation.

11. (Currently Amended) The apparatus of claim 9 wherein the controller is configured to display ~~[[an]]the~~ editing function as an editing option in the form of a graphical representation of ~~[[an]]a~~ mathematical equation.

12. (Original) The apparatus of claim 11 wherein the graphical representation is a line chart.

13. (Original) The apparatus of claim 11 wherein the graphical representation is a bar chart.

14. (Canceled)

15. (Currently Amended) A method of interactively displaying tabular data comprising the steps of:

(A) displaying a first graphical images image representative of tabular data;

(B) accepting a user selected range of values for editing of the first graphical image, wherein the range of values are included within the first graphical image input to
graphically edit the tabular data;

(C) accepting graphically edited tabular dataa user selected editing function from among a plurality of possible editing functions; and

(D) performing a simulation using the graphically edited tabular dataaltering the first graphical image to produce a second graphical image, wherein the second graphical image comprises at least an unaltered portion of the first graphical image and an altered portion of the first graphical image derived from the editing function.

16. (Currently Amended) The method of claim 15 wherein the step (A) of displaying a first graphical images image representative of tabular data further comprises the step of:

5 (A1) displaying the tabular data as a line chart, wherein the first graphical image is a line in the line chart.

17. (Currently Amended) The method of claim 15 wherein the step (A) of displaying a first graphical images image representative of tabular data further comprises the step of:

5 (A2) displaying the tabular data as a stacked bar chart, wherein the first graphical image is a bar in the stacked bar chart.

B. 18. (Currently Amended) The method of claim 15 ~~wherein the step (B) of~~ accepting user input to graphically edit the tabular data further comprises further comprising the step of:

5 (B1a) ~~accepting input from a user to edit the tabular data by adding a data display element.~~

19. (Currently Amended) The method of claim 18 wherein the step (B1) of adding a data display element comprises of:

(B1b) ~~adding a line within a line chart.~~

20. (Currently Amended) The method of claim 18 wherein the step (B1) of adding a data display element comprises the step of:

(B1c) ~~adding a bar within a stacked bar chart.~~

21. (Currently Amended) The method of claim 15 ~~wherein the step (B) of accepting user input to graphically edit the tabular data further comprises~~ further comprising the steps of:

5 (B2) ~~being responsive to the selection by a user of a range within a graphical display area by editing tabular data corresponding to that range data~~ altering the first graphical image to produce a third graphical image, wherein the third graphical image comprises at least an unaltered portion of the first graphical image and an altered portion of the first graphical image derived from a second editing function and wherein the editing function in step 15 and the second editing function are applied to the first
10 graphical image over an overlapping range of values; and

simultaneously displaying the second and third graphical images to the user to permit the user to select between the second and third graphical images.

B. 22. (Currently Amended) The method of claim 15 ~~wherein the step (B) of accepting user input to graphically edit the tabular data further comprises~~ further comprising the step of:

5 (B3) ~~being responsive to the selection by a user of a data display element by editing a tabular data corresponding to that data display element.~~

23. (Currently Amended) The method of claim 22 ~~wherein the step (B3) of accepting user input to graphically edit the tabular data further comprises~~ comprising the step of:

5 (B3a) ~~being responsive to the selection by a user of an editing function by applying the editing function to a data display element.~~

24. (Currently Amended) The method of claim ~~[[23]]~~ 15 ~~wherein the step (B3a) further comprises~~ comprising the step of:

~~(B3b)~~ displaying ~~[[an]]~~ the editing function as an editing option in the form of ~~[[an]]~~ a mathematical equation.

25. (Currently Amended) The method of claim ~~[[23]]~~ 15 wherein ~~the step~~ ~~(B3a)~~ further ~~comprises~~ comprising the step of:

~~(B3c)~~ displaying ~~[[an]]~~ the editing function as an editing option in the form of a graphical representation of ~~[[an]]~~ a mathematical equation.

26. (Currently Amended) The method of claim 25 wherein the displaying step ~~(B3c)~~ further comprises the step of:

~~(B3d)~~ displaying a line chart as the graphical representation.

27. (Currently Amended) The method of claim 25 wherein the displaying step ~~(B3c)~~ further comprises the step of:

~~(B3e)~~ displaying a bar chart as the graphical representation.

28. (Canceled)

29. (Currently Amended) A computer program product for use with an interactive display system capable of receiving input signals from an input device, the computer program product comprising a computer usable medium having computer readable code thereon comprising:

5 display code for displaying tabular data on a display as ~~graphical~~ a first graphical image;

code for accepting user input to graphically edit the tabular data, wherein the user input is a selected range of values for editing of the first graphical image, wherein the range of values are included within the first graphical image; and

- 10 code for altering the first graphical image to produce a second graphical image, wherein the second graphical image comprises at least an unaltered portion of the first graphical image and an altered portion of the first graphical image derived from the editing function~~performing a simulation using the graphically edited tabular data.~~

31-34. (Canceled)

Please add the following new Claims 35-46:

35. (New) The apparatus of claim 1, further comprising:
a simulator configured to receive tabular data edited by a user employing the
controller

36. (New) The method of claim 15, further comprising:
accepting graphically edited tabular data; and
performing a simulation using the graphically edited tabular data.

37. (New) The method of claim 15, further comprising:
providing a plurality of affordances on the second graphical image; and
accepting alterations to the second graphical image derived from user
manipulation of the affordances.

38. (New) A computer readable medium comprising instructions to perform
the steps of claim 15.

39. (New) A method of interactively displaying tabular data comprising the
steps of:
displaying a first graphical image representative of tabular data;

5 accepting from a user a selected range of values for editing of the first graphical
image, wherein the range of values are included within the first graphical image;
accepting from the user first and second editing functions to edit the first graphical
image in the selected range;
altering the first graphical image within the selected range according to the first
editing function to produce a second graphical image and according to the second editing
10 function to produce a third graphical image; and
simultaneously displaying the second and third graphical images to the user.

B, 40. (New) The method of claim 39, further comprising:
receiving from the user an election to use the second graphical image; and
storing the second graphical image as the correct graphical image within the
selected range.

41. (New) The method of claim 40, wherein the second graphical image
comprises at least an altered portion of the first graphical image derived from the first
editing function and an unaltered portion of the first graphical image.

42. (New) The method of claim 41, wherein the altered portion of the first
graphical image is within the selected range and the unaltered portion is outside of the
selected range.

43. (New) The method of claim 39, wherein the first graphical image
comprises a plurality of affordances and further comprising:
accepting alterations to the first graphical image derived from user manipulation
of the affordances.

44. (New) A method of interactively displaying tabular data comprising the steps of:

displaying a first graphical image representative of tabular data, the first graphical image comprising a plurality of affordances; and

5 accepting alterations to the second graphical image derived from user manipulation of the affordances.

45. (New) The method of claim 44, further comprising:

accepting a user selected range of values for editing of the first graphical image, wherein the range of values are included within the first graphical image;

accepting a user selected editing function from among a plurality of possible editing functions; and

5 altering the first graphical image to produce a second graphical image, wherein the second graphical image comprises at least an unaltered portion of the first graphical image and an altered portion of the first graphical image derived from the editing function.

46. (New) The method of claim 45, further comprising:

altering the first graphical image to produce a third graphical image, wherein the third graphical image comprises at least an unaltered portion of the first graphical image and an altered portion of the first graphical image derived from a second editing function and wherein the editing function in step 15 and the second editing function are applied to the first graphical image over an overlapping range of values; and

5 simultaneously displaying the second and third graphical images to the user to permit the user to select between the second and third graphical images.